

MAEA Recombinant antibody

Catalog Number: 83267-1-RR

Basic Information

Catalog Number:

83267-1-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27150

GenBank Accession Number:

BC001225

GeneID (NCBI):

10296

UNIPROT ID:

Q7L5Y9

Full Name:

macrophage erythroblast attacher

Calculated MW:

45 kDa

Observed MW:

45 kDa

Purification Method:

Protein A purification

CloneNo.:

240097B2

Recommended Dilutions:

WB 1:5000-1:50000

Affinity: $K_D < 1.00 \times 10^{-12}$ $K_{Off} < 1.00 \times 10^{-6}$ $K_{On} = 9.49 \times 10^4$

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : Jurkat cells, HepG2 cells, C2C12 cells, U2OS cells, A549 cells, HeLa cells, MCF-7 cells

Background Information

MAEA (macrophage erythroblast attacher) is a core component of the CTLH E3 ubiquitin-protein ligase complex. MAEA is required for normal cell proliferation and plays a role in erythroblast enucleation during erythrocyte maturation and in the development of mature macrophages. N-terminus MAEA and full-length MAEA are mostly expressed in nuclear and can be detected at low level in the cytoplasm of some cells, while C-terminus MAEA can be detected in the cytoplasm and nucleoli within the nucleus. MAEA mediates the attachment of erythroid cell to mature macrophages which can inhibit erythroid cell apoptosis. The expression of MAEA may be associated with the type 2 diabetes mellitus. (PubMed: 28955747, 24143168, 29911972, 29911972, 30674470, 9763581).

Storage

Storage:

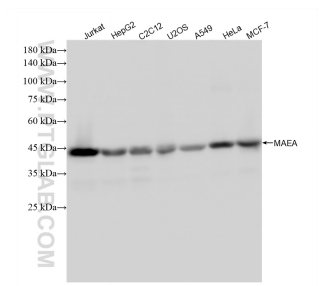
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

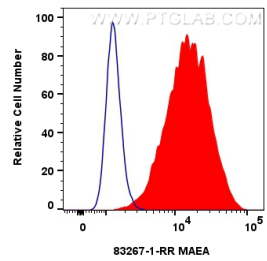
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

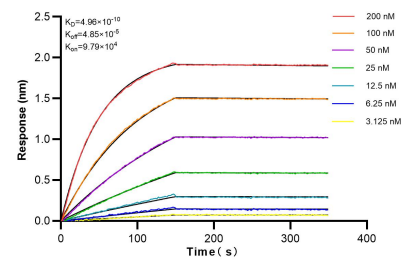
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83267-1-RR (MAEA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10⁶ U-251 cells were intracellularly stained with 0.25 ug MAEA Recombinant antibody (83267-1-RR, Clone:240097B2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83267-1-RR against Human MAEA were performed. The affinity constant is 0.496 nM.